

Marcus Frohme

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

3,183
citations

186265
28
h-index

168389
53
g-index

110
all docs

110
docs citations

110
times ranked

4348
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome sequence of the plant pathogen <i>Xylella fastidiosa</i> . <i>Nature</i> , 2000, 406, 151-157.	27.8	827
2	Standardization and quality management in next-generation sequencing. <i>Applied & Translational Genomics</i> , 2016, 10, 2-9.	2.1	161
3	Shining a light on LAMP assays' A comparison of LAMP visualization methods including the novel use of berberine. <i>BioTechniques</i> , 2015, 58, 189-194.	1.8	141
4	Anhydrobiosis in tardigradesâ€”The last decade. <i>Journal of Insect Physiology</i> , 2011, 57, 577-583.	2.0	140
5	Redescriptions of three Milnesium DoyÃ“re, 1840 taxa (Tardigrada: Eutardigrada: Milnesiidae), including the nominal species for the genus. <i>Zootaxa</i> , 2012, 3154, 1.	0.5	125
6	Cardiac ankyrin repeat protein, a negative regulator of cardiac gene expression, is augmented in human heart failure. <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 1377-1382.	2.1	86
7	A simple viability analysis for unicellular cyanobacteria using a new autofluorescence assay, automated microscopy, and ImageJ. <i>BMC Biotechnology</i> , 2011, 11, 118.	3.3	79
8	Characterization of genome methylation patterns in the desert locust <i>Schistocerca gregaria</i> . <i>Journal of Experimental Biology</i> , 2013, 216, 1423-9.	1.7	71
9	Isothermal amplifications â€” a comprehensive review on current methods. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2021, 56, 543-586.	5.2	68
10	<i>In vitro</i> and <i>in vivo</i> toxicity of pristine C ₆₀ fullerene aqueous colloid solution. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 715-728.	2.1	66
11	Molecular mechanisms of tolerance in tardigrades: New perspectives for preservation and stabilization of biological material. <i>Biotechnology Advances</i> , 2009, 27, 348-352.	11.7	61
12	Identification of genes with specific expression in pancreatic cancer by cDNA representational difference analysis. , 1997, 19, 97-103.		58
13	Proteomic Analysis of Tardigrades: Towards a Better Understanding of Molecular Mechanisms by Anhydrobiotic Organisms. <i>PLoS ONE</i> , 2010, 5, e9502.	2.5	58
14	The Optimal Mutagen Dosage to Induce Point-Mutations in <i>Synechocystis</i> sp. PCC6803 and Its Application to Promote Temperature Tolerance. <i>PLoS ONE</i> , 2012, 7, e49467.	2.5	54
15	Towards Decrypting Cryptobiosisâ€”Analyzing Anhydrobiosis in the Tardigrade <i>Milnesium tardigradum</i> Using Transcriptome Sequencing. <i>PLoS ONE</i> , 2014, 9, e92663.	2.5	53
16	Stress response in tardigrades: differential gene expression of molecular chaperones. <i>Cell Stress and Chaperones</i> , 2010, 15, 423-430.	2.9	52
17	Experimental taxonomy confirms the environmental stability of morphometric traits in a taxonomically challenging group of microinvertebrates. <i>Zoological Journal of the Linnean Society</i> , 2016, 178, 765-775.	2.3	52
18	C60 fullerene accumulation in human leukemic cells and perspectives of LED-mediated photodynamic therapy. <i>Free Radical Biology and Medicine</i> , 2018, 124, 319-327.	2.9	50

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19	ITSâ€² and 18S rRNA data from <i>Macrobiotus polonicus</i> and <i>Milnesium tardigradum</i> (Eutardigrada, Tardigrada). <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2011, 49, 34-39.	1.4	47
20	Liver-Specific Loss of Lipolysis-Stimulated Lipoprotein Receptor Triggers Systemic Hyperlipidemia in Mice. <i>Diabetes</i> , 2009, 58, 1040-1049.	0.6	44
21	Evolution of astacin-like metalloproteases in animals and their function in development. <i>Evolution & Development</i> , 2006, 8, 223-231.	2.0	43
22	A putative double role of a chitinase in a cnidarian: pattern formation and immunity. <i>Developmental and Comparative Immunology</i> , 2004, 28, 973-981.	2.3	41
23	Time-dependent expression and activity of cytochrome P450 1s in early life-stages of the zebrafish (<i>Danio rerio</i>). <i>Environmental Science and Pollution Research</i> , 2015, 22, 16319-16328.	5.3	36
24	Complexation with C60 Fullerene Increases Doxorubicin Efficiency against Leukemic Cells In Vitro. <i>Nanoscale Research Letters</i> , 2019, 14, 61.	5.7	35
25	Isolation of Differentially Expressed Genes by Combining Representational Difference Analysis (RDA) and cDNA Library Arrays. <i>BioTechniques</i> , 1998, 25, 434-438.	1.8	34
26	Stimulated Expression of mRNAs in Activated T Cells Depends on a Functional CRM1 Nuclear Export Pathway. <i>Journal of Molecular Biology</i> , 2006, 358, 997-1009.	4.2	32
27	Synergy of Chemo- and Photodynamic Therapies with C60 Fullerene-Doxorubicin Nanocomplex. <i>Nanomaterials</i> , 2019, 9, 1540.	4.1	32
28	C60 Fullerene as an Effective Nanoplatfom of Alkaloid Berberine Delivery into Leukemic Cells. <i>Pharmaceutics</i> , 2019, 11, 586.	4.5	29
29	Screening and genetic characterization of thermo-tolerant <i>Synechocystis</i> sp. PCC6803 strains created by adaptive evolution. <i>BMC Biotechnology</i> , 2014, 14, 66.	3.3	28
30	The transcriptome of the colonial marine hydroid <i>Hydractinia fochinata</i> . <i>FEBS Journal</i> , 2010, 277, 197-209.	4.7	25
31	Investigating heat shock proteins of tardigrades in active versus anhydrobiotic state using shotgun proteomics. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2011, 49, 111-119.	1.4	25
32	Toxicity of C60 fullereneâ€“cisplatin nanocomplex against Lewis lung carcinoma cells. <i>Archives of Toxicology</i> , 2019, 93, 1213-1226.	4.2	25
33	Microsatellite marker discovery using single molecule real-time circular consensus sequencing on the Pacific Biosciences RS. <i>BioTechniques</i> , 2013, 55, 253-256.	1.8	24
34	High-throughput cultivation and screening platform for unicellular phototrophs. <i>BMC Microbiology</i> , 2014, 14, 239.	3.3	24
35	Pepper Bacterial Spot Control by <i>Bacillus velezensis</i> : Bioprocess Solution. <i>Microorganisms</i> , 2020, 8, 1463.	3.6	24
36	Structural but not functional conservation of an immune molecule: a tachylectin-like gene in <i>Hydractinia</i> . <i>Developmental and Comparative Immunology</i> , 2006, 30, 275-281.	2.3	23

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37	Late ischemic preconditioning of the myocardium alters the expression of genes involved in inflammatory response. <i>FEBS Letters</i> , 2003, 547, 51-55.	2.8	22
38	Photoacids in biochemical applications. <i>Journal of Cellular Biotechnology</i> , 2019, 4, 23-30.	0.5	19
39	Mapping analysis of the <i>Xylella fastidiosa</i> genome. <i>Nucleic Acids Research</i> , 2000, 28, 3100-3104.	14.5	18
40	Use of Representational Difference Analysis and cDNA Arrays for Transcriptional Profiling of Tumor Tissue. <i>Annals of the New York Academy of Sciences</i> , 2000, 910, 85-105.	3.8	17
41	A fragile X mental retardation-like gene in a cnidarian. <i>Gene</i> , 2004, 343, 231-238.	2.2	16
42	Spatiotemporal and molecular epidemiology of cutaneous leishmaniasis in Libya. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005873.	3.0	16
43	Hybridization mapping of <i>Trypanosoma cruzi</i> chromosomes III and IV. <i>Electrophoresis</i> , 1998, 19, 482-485.	2.4	14
44	A pilot study on fingerprinting <i>Leishmania</i> species from the Old World using Fourier transform infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 6907-6923.	3.7	14
45	Induced cytokine response of human PMBC-cultures: Correlation of gene expression and secretion profiling and the effect of cryopreservation. <i>Cellular Immunology</i> , 2012, 272, 144-153.	3.0	13
46	Pushing the detection limits: The evanescent field in surface plasmon resonance and analyte-induced folding observation of long human telomeric repeats. <i>Biosensors and Bioelectronics</i> , 2012, 31, 571-574.	10.1	13
47	Ten simple rules on how to write a standard operating procedure. <i>PLoS Computational Biology</i> , 2020, 16, e1008095.	3.2	13
48	Selective generation of chromosomal cosmid libraries within the <i>Trypanosoma cruzi</i> genome project. <i>Electrophoresis</i> , 1998, 19, 478-481.	2.4	12
49	Intact cell mass spectrometry as a rapid and specific tool for the differentiation of toxic effects in cell-based ecotoxicological test systems. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7721-7731.	3.7	12
50	Directed Gap Closure in Large-Scale Sequencing Projects. <i>Genome Research</i> , 2001, 11, 901-903.	5.5	11
51	Engineering of CHO Cells for the Production of Recombinant Glycoprotein Vaccines with Xylosylated N-glycans. <i>Bioengineering</i> , 2017, 4, 38.	3.5	11
52	Quantification of nitroaromatic explosives in contaminated soil using MALDI-TOF mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5993-6003.	3.7	11
53	Antitumor efficiency of the natural alkaloid berberine complexed with C60 fullerene in Lewis lung carcinoma in vitro and in vivo. <i>Cancer Nanotechnology</i> , 2021, 12, .	3.7	10
54	A polymorphic, thrombospondin domain-containing lectin is an oocyte marker in <i>Hydractinia</i> : implications for germ cell specification and sex determination. <i>International Journal of Developmental Biology</i> , 2011, 55, 103-108.	0.6	10

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55	Reference gene stability in peripheral blood mononuclear cells determined by qPCR and NanoString. <i>Mikrochimica Acta</i> , 2014, 181, 1733-1742.	5.0	9
56	Alizarin Red S for Online Pyrophosphate Detection Identified by a Rapid Screening Method. <i>Scientific Reports</i> , 2017, 7, 45085.	3.3	9
57	A new triple system DNA-Nanosilver-Berberine for cancer therapy. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 945-956.	3.1	9
58	HPLC-ESI-MS method for C60 fullerene mitochondrial content quantification. <i>Data in Brief</i> , 2018, 19, 2047-2052.	1.0	8
59	Biomarkers for Liquid Biopsies of Pituitary Neuroendocrine Tumors. <i>Biomedicines</i> , 2020, 8, 148.	3.2	8
60	The need for standardisation in life science research - an approach to excellence and trust.. <i>F1000Research</i> , 2020, 9, 1398.	1.6	7
61	Bioinformatics identifies tardigrade molecular adaptations including the DNA- γ family and first steps towards dynamical modelling. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2011, 49, 120-126.	1.4	6
62	Hinge-initiated Primer-dependent Amplification of Nucleic Acids (HIP) – A New Versatile Isothermal Amplification Method. <i>Scientific Reports</i> , 2017, 7, 7683.	3.3	6
63	Mobile Microscopy and Automated Image Analysis. <i>Optik & Photonik</i> , 2018, 13, 36-39.	0.2	6
64	A Novel Optical Method To Reversibly Control Enzymatic Activity Based On Photoacids. <i>Scientific Reports</i> , 2019, 9, 14372.	3.3	6
65	Smartphone based mobile microscopy for diagnostics. <i>Journal of Cellular Biotechnology</i> , 2019, 4, 57-65.	0.5	6
66	The role of noncoding RNAs in pituitary adenoma. <i>Epigenomics</i> , 2021, 13, 1421-1437.	2.1	6
67	Examination of blood samples using deep learning and mobile microscopy. <i>BMC Bioinformatics</i> , 2022, 23, 65.	2.6	6
68	Strategies for the Detection of Disease Genes in Pancreatic Cancer. <i>Annals of the New York Academy of Sciences</i> , 1999, 880, 122-146.	3.8	5
69	cDNA representational difference analysis for identifying transcripts regulated under anhydrobiosis in the tardigrade <i>Milnesium tardigradum</i> . <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2011, 49, 127-132.	1.4	5
70	The use of fluorescence microscopy and image analysis for rapid detection of non-producing revertant cells of <i>Synechocystis</i> sp. PCC6803 and <i>Synechococcus</i> sp. PCC7002. <i>BMC Research Notes</i> , 2015, 8, 160.	1.4	5
71	A Novel Microtiter Plate Format High Power Open Source LED Array. <i>Photonics</i> , 2019, 6, 17.	2.0	5
72	Novel technology for detection of genomic and transcriptional alterations in pancreatic cancer. <i>Annals of Oncology</i> , 1999, 10, S64-S68.	1.2	4

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73	In Vitro Evaluation of Glycoengineered RSV-F in the Human Artificial Lymph Node Reactor. <i>Bioengineering</i> , 2017, 4, 70.	3.5	4
74	Microsatellite based molecular epidemiology of <i>Leishmania infantum</i> from re-emerging foci of visceral leishmaniasis in Armenia and pilot risk assessment by ecological niche modeling. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009288.	3.0	4
75	Cis-Palladium(II) complex incorporating 3-(2-pyridyl)-5-methyl-1,2,4-triazole: structure and cytotoxic activity. <i>Chemical Papers</i> , 2021, 75, 4899-4906.	2.2	4
76	Re-Emerging foci of visceral leishmaniasis in Armenia – first molecular diagnosis of clinical samples. <i>Parasitology</i> , 2019, 146, 857-864.	1.5	3
77	Spatiotemporal analysis of cutaneous leishmaniasis in Palestine and foresight study by projections modelling until 2060 based on climate change prediction. <i>PLoS ONE</i> , 2022, 17, e0268264.	2.5	3
78	Contig Selection in Physical Mapping. <i>Journal of Computational Biology</i> , 2000, 7, 395-408.	1.6	2
79	Use of Complex DNA and Antibody Microarrays as Tools in Functional Analyses. <i>Comparative and Functional Genomics</i> , 2003, 4, 520-524.	2.0	2
80	The ElonginB/C-Cullin5-SOCS-Box-Complex Is a Potential Biomarker for Growth Hormone Disorders. <i>Biomedicines</i> , 2021, 9, 201.	3.2	2
81	Variant expression signatures of microRNAs and protein related to growth in a crossbreed between two strains of Nile tilapia (<i>Oreochromis niloticus</i>). <i>Genomics</i> , 2021, 113, 4303-4312.	2.9	2
82	Open Architecture PCR-Based Methods for Differential Gene Expression Analysis. <i>Current Pharmaceutical Analysis</i> , 2009, 5, 1-9.	0.6	1
83	Quality and information management in the laboratory. , 2011, , .		1
84	LED-based portable light source for photodynamic therapy. , 2019, , .		1
85	The need for standardisation in life science research - an approach to excellence and trust.. <i>F1000Research</i> , 2020, 9, 1398.	1.6	1
86	A novel strategy for high-throughput sample collection, analysis and visualization of explosives™ concentrations for contaminated areas. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 1399-1410.	3.5	1
87	Miniaturized Flow-Through Bioreactor for Processing and Testing in Pharmacology. <i>Materials Science Forum</i> , 2016, 879, 236-243.	0.3	0
88	C60 Fullerene Effects on Diphenyl-N-(trichloroacetyl)-amidophosphate Interaction with DNA In Silico and Its Cytotoxic Activity Against Human Leukemic Cell Line In Vitro. <i>Nanoscale Research Letters</i> , 2018, 13, 81.	5.7	0
89	Standardization and Quality Assurance in Life-Science Research - Crucially Needed or Unnecessary and Annoying Regulation?. <i>Communications in Computer and Information Science</i> , 2018, , 13-20.	0.5	0
90	An improved open-source software platform for high-throughput cultivation of phototrophic microorganisms and its application for salt tolerance experiments. <i>Journal of Cellular Biotechnology</i> , 2019, 5, 103-114.	0.5	0

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91	A Novel Water-Soluble C60 Fullerene-Based Nano-Platform Enhances Efficiency of Anticancer Chemotherapy. , 2022, , 59-93.		0